

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	36463
<b>MMRRC Strain Name</b>	STOCK Sox17 <sup>tm2(EGFP/cre)Mgn</sup> /Mmnc
<b>Gene Name(s)</b>	SRY-box containing gene 17 (Sox17)
<b>Breeding Protocol(s)</b>	Backcross to CD-1 (Charles River)
<b>Protocol Date</b>	1/28/13

### MMRRC# 36463 PCR Reaction

**Thermal Cycler:**

94°C for 5 min  
 94°C for 30 sec  
 58°C for 30 sec  
 72°C for 45 sec  
 Steps 2-4, 35x  
 72C for 7 min

Taq: **Apex and Chromataq 5X Buffer**

**Bands:** MUTANT: 590bp  
 WT: 424bp

**Primer sequences 5' to 3':**

UTR(36463): CATTCTGGTCAACATGTAAGGT  
 S2(36463): CAGAGGTATGCAGATCTCTGT

Run on 2.0% agarose gel in TAE.

	<b><u>1X</u></b>
ddH <sub>2</sub> O	13
5X Buffer	5.0
25mM MgCl <sub>2</sub>	2
10mM dNTPs	0.5
10 uM Primer F	1
10 uM Primer R	1
Taq	0.5
DNA	2